

# THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

**Rogers Brothers Seed Company**

Whereas, THERE HAS BEEN PRESENTED TO THE

**Secretary of Agriculture**

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF *seventeen* YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, IMPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

PEA

'Salvo'



In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington this 11th day of September in the year of our Lord one thousand nine hundred and eighty.

Attest:

*Samuel H. Lane*  
Commissioner  
Plant Variety Protection Office  
Grain Division  
Agricultural Marketing Service

*W. B. Beryland*  
Secretary of Agriculture

UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION

FORM APPROVED  
OMB NO. 40-R3822

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE

INSTRUCTIONS: See Reverse.

No certificate for plant variety protection may be issued unless a completed application form has been received (5 U.S.C. 553).

1a. TEMPORARY DESIGNATION OF VARIETY Canner 77-488		1b. VARIETY NAME Salvo		FOR OFFICIAL USE ONLY	
				PV NUMBER 8000099	
2. KIND NAME Garden Pea		3. GENUS AND SPECIES NAME Pisum sativum		FILING DATE 5/5/80	TIME 8:00 A.M. P.M.
4. FAMILY NAME (BOTANICAL) Leguminosae		5. DATE OF DETERMINATION Fall 1977		FEE RECEIVED \$ 500.00 \$ 250.00	DATE 5/5/80 8/4/80
6. NAME OF APPLICANT(S) Rogers Brothers Seed Company		7. ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code) P. O. Box 1647 Idaho Falls, ID 83401		8. TELEPHONE AREA CODE AND NUMBER (208) 522-0143	
9. IF THE NAMED APPLICANT IS NOT A PERSON, FORM OF ORGANIZATION: (Corporation, partnership, association, etc.) Corporation			10. IF INCORPORATED, GIVE STATE AND DATE OF INCORPORATION Delaware		11. DATE OF INCORPORATION Feb. 25, 1975
12. NAME AND MAILING ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION AND RECEIVE ALL PAPERS: Mr. Charles Green, Administrative Assistant Rogers Brothers Seed Company P. O. Box 1647, Idaho Falls, ID 83401					

13. CHECK BOX BELOW FOR EACH ATTACHMENT SUBMITTED:

- ☒ 13A. Exhibit A, Origin and Breeding History of the Variety (See Section 52 of the Plant Variety Protection Act.)
- ☒ 13B. Exhibit B, Novelty Statement.
- ☒ 13C. Exhibit C, Objective Description of the Variety (Request form from Plant Variety Protection Office.)
- ☒ 13D. Exhibit D, Additional Description of the Variety.

14a. DOES THE APPLICANT(S) SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 83(a). (If "Yes," answer 14B and 14C below.)		<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
14b. DOES THE APPLICANT(S) SPECIFY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?	14c. IF "YES," TO 14B, HOW MANY GENERATIONS OF PRODUCTION BEYOND BREEDER SEED?		
<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED		
15a. DID THE APPLICANT(S) FILE FOR PROTECTION OF THIS VARIETY IN OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (If "Yes," give name of countries and dates.)			
15b. HAVE RIGHTS BEEN GRANTED THIS VARIETY IN OTHER COUNTRIES? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO (If "Yes," give name of countries and dates.)			

16. DOES THE APPLICANT(S) AGREE TO THE PUBLICATION OF HIS/HER (THEIR) NAME(S) AND ADDRESS IN THE OFFICIAL JOURNAL? ☒ YES ☐ NO

17. The applicant(s) declare(s) that a viable sample of basic seed of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable.

The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Act.

Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

April 24, 1980  
(DATE)

Charles Green  
(SIGNATURE OF APPLICANT)  
Charles Green, Administrative Assistant  
Rogers Brothers Seed Company

(SIGNATURE OF APPLICANT)

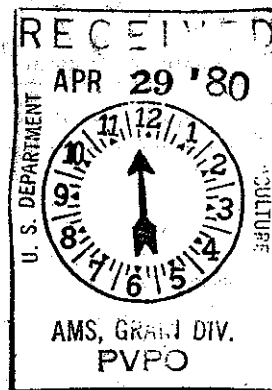
## INSTRUCTIONS

**GENERAL:** Send an original copy of the application and exhibits, at least 2,500 viable seeds, and \$500 fee (\$250 filing fee and \$250 examination fee) to U.S. Dept. of Agriculture, Agricultural Marketing Service, Livestock, Poultry, Grain and Seed Division, Plant Variety Protection Office, National Agricultural Library Building, Beltsville, Maryland 20705. (See section 180.175 of the Regulations and Rules of Practice.) Retain one copy for your files. All items on the face of the form are self-explanatory unless noted below.

### ITEM

- 5 Give the date the applicant determined that he had a new variety based on (1) the definition in section 41(a) of the Act and (2) the date a decision was made to increase the seed.
- 13a Give: (1) the genealogy, including public and commercial varieties, lines, or clones used, and the breeding method; (2) the details of subsequent stages of selection and multiplication; (3) the type and frequency of variants during reproduction and multiplication and state how these variants may be identified and (4) evidence of uniformity and stability.
- 13b Give a summary statement of the variety's novelty. Clearly state how this novel variety may be distinguished from all other varieties in the same crop. If the new variety most closely resembles one or a group of related varieties: (1) identify these varieties and state all differences objectively; (2) attach statistical data for characters expressed numerically and demonstrate that these differences are significant; and (3) submit, if helpful, seed and plant specimens or photographs of seed and plant comparisons clearly indicating novelty.
- 13c Fill in the Exhibit C, Objective Description form, for all characteristics for which you have adequate data.
- 13d Describe any additional characteristics that are not described, or whose description cannot be accurately conveyed in Exhibit C. Use comparative varieties as is necessary to reveal more accurately the description of characteristics that are difficult to describe, such as, plant habit, plant color, disease resistance, etc.
- 14a If "YES" is specified (seed of this variety be sold by variety name only as a class of certified seed) the applicant may NOT reverse his affirmative decision after the variety has either been sold and so labeled, his decision published, or the certificate has been issued. However, if the applicant specified "NO," he may change his choice. (See section 180.16 of the Regulations and Rules of Practice.)

- 15a See section 42 of the Plant Variety Protection Act and section 180.7 of the Regulations and Rules of Practice.



## SALVO

### Exhibit A (Revised)

#### Origin and Breeding History of the Variety

Salvo is a late maturing canning pea that was derived from the following hand pollinated crosses:

Royal Sluis #1491 x (Aurora x Asgrow Bonus)

The final cross of this pedigree was made during the winter of 1971-72 and the following series of selections were subsequently made:

<u>Year</u>	<u>Generation</u>	<u>Plot</u>	<u>Harvested</u>
1972	f <sub>1</sub>	722012	Bulked
1973	f <sub>2</sub>	732173	Bulked <i>plant</i>
1974	f <sub>3</sub>	741863	4 single <i>plant</i> plot selections
1974-75	f <sub>4</sub>	Greenhouse Increase	Bulked
1975	f <sub>5</sub>	751702	3 single <i>plant</i> plot selections <i>St 7 800709</i>
1976	f <sub>6</sub>	761837	2# 5 oz. bulked

The 2# 5oz. bulked harvest of 761837 was increased in 1977 as plot 77488 and the harvest from this planting has been used as the basic seed stock for our present Salvo variety. Thirteen single plant selections were made from plot 77488 and after evaluation for trueness to type and uniformity, five selections have been retained and increased as pure line reserve maintenance stocks.

In the original production line of Salvo, approximately one larger podded type in 400 plants has been observed, and approximately one earlier maturing plant per 1400 has been observed. These off types are the result of a minor field mix that occurred during the winter of 1977 and have not been observed in the new pureline selections. The original line has been carefully rogued during the two subsequent seasons and the line is believed to be virtually free of mixtures. The new purelines are genetically uniform and stable and will replace the original line as soon as they can be increased to commercial quantities.

SALVO

Exhibit B (Revised)

Novelty Statment

Salvo most closely resembles the pea varieites Canjoy and Mini, except: Salvo is two days later maturing than Canjoy with an average sieve size of 2.7 compared to 3.8 for Canjoy. Salvo also has a denser canopy of foliage than Canjoy. Salvo has a slimmer vine than Canjoy, which gives Salvo somewhat of a 'wirey' appearance.

Salvo resembles Mini in pod size and sieve size, however, Salvo is 6 days later maturing than Mini at Twin Falls, Idaho, has a sieve size of 2.7 compared to 2.0 for Mini, and has a denser foliage canopy than Mini. Salvo is powdery mildew resistant while Mini is not.



UNITED STATES DEPARTMENT OF AGRICULTURE  
AGRICULTURAL MARKETING SERVICE  
LIVESTOCK, POULTRY, GRAIN & SEED DIVISION  
NATIONAL AGRICULTURAL LIBRARY  
BELTSVILLE, MARYLAND 20705EXHIBIT C  
(Pea)

## OBJECTIVE DESCRIPTION OF VARIETY

PEA (*PISUM SATIVUM*)

## NAME OF APPLICANT(S)

ROGERS BROTHERS SEED COMPANY

## ADDRESS (Street and No. or R.F.D. No., City, State, and ZIP Code)

P. O. Box 1647  
Idaho Falls, ID 83401VARIETY NAME OR TEMPORARY  
DESIGNATION

SALVO

## FOR OFFICIAL USE ONLY

PVPO NUMBER 8000099

Place the appropriate number that describes the varietal character in the boxes below.

Place a zero in first box (e.g.,  or ) when number is either 99 or less or 9 or less.

## 1. TYPE:

1 = GARDEN

2 = FIELD

3 = EDIBLE-PODDED

## 2. MATURITY:

At Twin Falls

Node number of first bloom:

No. of days to processing

Heat Units

No. of days Earlier than

1 = ALASKA WR

2 = THOMAS LAXTON WR

3 = LITTLE MARVEL

No. of days Later than

4 = WANDO

5 = ALDERMAN WR

6 = AUSTRIAN WINTER

## 3. PLANT HEIGHT:

CM. HIGH

Cm. Shorter than

1 = ALASKA WR

2 = THOMAS LAXTON WR

3 = LITTLE MARVEL

Cm. Taller than

4 = WANDO

5 = ALDERMAN WR

6 = AUSTRIAN WINTER

## 4. VINE:

Habit:

1 = DETERMINATE

2 = INDETERMINATE

Stockiness:

1 = SLIM (Alaska)

3 = HEAVY (Alderman)

2 = MEDIUM (Thomas Laxton WR)

Branching:

1 = NONE (Alaska)

2 - 1-2 BRANCHES (Little Marvel)

3 = MORE THAN 2 BRANCHES (Dwarf Gray Sugar)

Internodes:

1 = STRAIGHT

2 = ZIG ZAG

Will collect data prior to Sept. 1980.  
NUMBER OF NODES

## 5. LEAFLETS:

Color:

1 = LIGHT GREEN (Alaska WR)

2 = MED. GREEN (Thomas Laxton WR)

3 = DARK GREEN (Alderman)

4 = OTHER (Specify)

Wax:

1 = NONE 2 = LIGHT 3 = MEDIUM

4 = HEAVY

1 = NOT MARBLED

2 = MARBLED (Alaska)

Number of leaflet pairs:

1 = NOT PAIRED

2 = ONE

3 = TWO

4 = THREE OR MORE

## 6. STIPULES:

1 = LACKING

2 = PRESENT

1 = NOT CLASPING

2 = CLASPING

1 = NOT MARBLED

2 = MARBLED

Size (Compared with leaflets):

1 = SMALLER

2 = SAME

3 = LARGER

Color (Compared with leaflets):

1 = LIGHTER

2 = SAME

3 = DARKER

## 7. FLOWER COLOR:

VENATION

STANDARD

WING

KEEL

1 = WHITE

2 = GREENISH

3 = LAVENDER

4 = PURPLE 5 = RED

6 = OTHER (Specify)

## 8. PODS:

Shape: 1 = STRAIGHT 2 = SLIGHTLY CURVED 3 = CURVED  End: 1 = POINTED (Alderman) 2 = BLUNT (Alaska)  
 Color: 1 = LIGHT GREEN (Alaska WR) 2 = MEDIUM GREEN 3 = DARK GREEN (Alderman)  
4 = OTHER (Specify) \_\_\_\_\_  
 Surface: 1 = SMOOTH 2 = ROUGH ☒ Surface: 1 = SHINY 2 = DULL  
 Borne: 1 = SINGLE 2 = DOUBLE 3 = SINGLE AND DOUBLE 4 = SINGLE, DOUBLE, & TRIPEE  
5 = DOUBLE & TRIPLE 6 = TRIPLE 7 = OTHER (Specify) Double to 5 per node  
  <sup>mm</sup> LENGTH   MM. WIDTH (Between sutures)   NO. SEEDS PER POD

## 9. SEEDS (95-100 Tenderometer):

Color: 1 = LIGHT GREEN 2 = GREEN 3 = DARK GREEN 4 = OTHER (Specify) \_\_\_\_\_  
Seive: % 

1	7	2	8	3	9	4	1	5	4	6	1	7	0	8	0	AVERAGE		
1	7	2	8	2	9	2	1	0	4	0	1	0	0	0	0	2	7	0

## SEEDS (Dry, Mature):

Shape: 1 = FLATTENED 2 = ANGULAR 3 = OVAL 4 = ROUNDED  
 Surface: 1 = SMOOTH 2 = DIMPLED 3 = WRINKLED  Surface: 1 = SHINY 2 = DULL  
 Color Pattern: 1 = MONOCOLOR 2 = MOTTLED 3 = STRIPED 4 = DOTTED  
 Primary Color: 1 = CREAMY-WHITE 2 = CREAM & GREEN 3 = LIGHT GREEN 4 = MEDIUM GREEN  
5 = DARK GREEN 6 = BLUE-GREEN 7 = YELLOW 8 = BROWN 9 = RED  
 Secondary Color: 10 = GRAY 11 = BLACK  
 Hilum Floor Color: 1 = WHITE 2 = TAN 3 = BLACK  Cotyledon Color: 1 = GREEN 2 = YELLOW 3 = ORANGE  
  GRAMS PER 100 SEEDS

## 10. DISEASE: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

<input type="text" value="2"/> FUSARIUM WILT	<input type="text" value="0"/> NEAR-WILT	<input type="text" value="0"/> DOWNY MILDEW
<input type="text" value="0"/> ASCOCHYTA BLIGHT	<input type="text" value="2"/> POWDERY MILDEW	<input type="text" value="0"/> BACTERIAL BLIGHT
<input type="text" value="0"/> MOSAIC	<input type="text" value="1"/> PEA ENATION MOSAIC	<input type="text" value="0"/> YELLOW BEAN MOSAIC
<input type="text"/> OTHER (Specify) _____		

## 11. INSECT: (0 = Not Tested; 1 = Susceptible; 2 = Resistant)

APHIDS  OTHER (Specify) \_\_\_\_\_

## 12. INDICATE WHICH VARIETY MOST CLOSELY RESEMBLES THAT SUBMITTED

CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Leafiness	Know of none similar	Fresh Seed Color	Canjoy
Leaf Color	Canjoy	Mature Seed Color	Canjoy
Pod Color	Canjoy	Seed Shape	Canjoy
Pod Shape	Canjoy	Plant Habit	Know of none similar

COMMENTS:

*rec'd*  
4/29/80

SALVO

8006099

Exhibit D

Additional Description of the Variety

Salvo is a late maturing sweet type canning variety pea. Salvo has an unusually small sieve size for its maturity and type (average 2.7) and produces a heavy pod set which results in yields that are competitive with varieties having considerably larger sieve size. Salvo is a multiple-podded variety and bears up to five pods per node. The vine is slender and determinate with a determinate pod set, and the leaves are rather small, which permits rather good aeration even though there is a relatively dense canopy. Under certain greenhouse production conditions, late, secondary branching has initiated at most of the branch nodes and secondary pod set has occurred. This is believed to be the result of low light intensity.